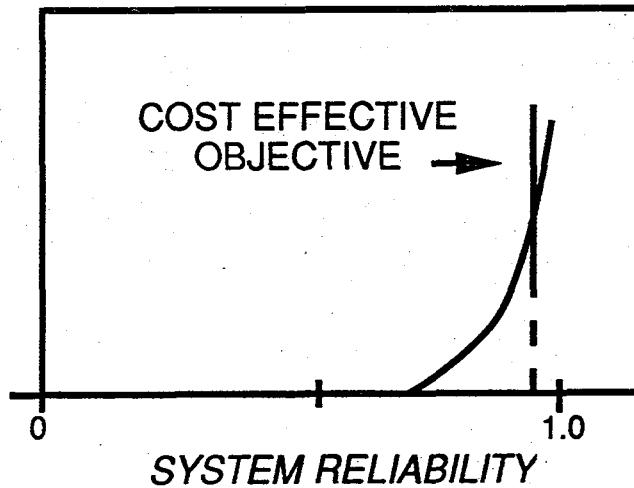


## PRODUCT ASSURANCE TARGETED TO MEET MISSION OBJECTIVES

- DEMONSTRATED CAPABILITY FOR:
  - HIGH PROBABILITY OF SUCCESS
  - PAYLOAD CUSTOMER CONFIDENCE

PRODUCT  
ASSURANCE  
LEVEL OF  
EFFORT



## PRODUCT ASSURANCE BASED ON "VALUE ADDED" STRATEGIC APPROACH

### PRODUCT ASSURANCE TOOLS AND SUPPORT

- RELIABILITY BLOCK DIAGRAM ANALYSIS
- EVALUATION OF PROBABILITY OF SUCCESS
- SELECTIVE REDUNDANCY RECOMMENDATIONS
  - DESIGN EVALUATION
- MTBF REVIEW
- FAILURE HISTORY AND TRENDING
- OFF-THE-SHELF VENDOR MATRICES
- MANUFACTURING PROCESS CONTROL
- CERTIFICATION TEST REVIEW
- INSPECTION ADEQUACY



### PROJECT GOALS

- DEMONSTRATED PROBABILITY OF SUCCESS
- HARDWARE OPTIMIZATION
- COST AND SCHEDULE EFFICIENCY

## PRODUCT ASSURANCE STRUCTURED FOR OPTIMAL PAYBACK

### TASKS:

- CONTINUED SUPPORT OF ENGINEERING STUDY GROUP
- RELIABILITY ANALYSIS FOR CHOSEN EQUIPMENT
  - RELIABILITY BLOCK DIAGRAM ANALYSIS (RBDA)- MODELING TO VERIFY SYSTEM PERFORMANCE
  - FAULT TOLERANCE ANALYSIS
  - MTBF VERIFICATION
  - FAILURE HISTORY REVIEW
  - RELIABILITY IMPROVEMENT RECOMMENDATIONS
- VENDOR REVIEW
  - ASSURING GOOD PROCESS CONTROLS
  - TEST COMPARISON MATRIX
- SYSTEM INTEGRATION SUPPORT
  - RBDA - MODELING TO VERIFY INTEGRATED PERFORMANCE
  - SUPPORT IN DEVELOPMENT OF INTEGRATED TEST PLANS

**GOAL: OPTIMAL PERFORMANCE AND RELIABILITY WITH COST AND SCHEDULE EFFICIENCY**